

ABSTRACT

An object of the present invention is to provide a honeycomb filter for purifying exhaust gases which has superior durability and is less likely to generate cracks and the like at a crisscross portion between sealing material layer, even when used together with a catalyst or used in an exhaust gas purifying device repeatedly for a long time.

The present invention is directed to a honeycomb filter for purifying exhaust gases which has a structure in which:

a plurality of rectangular columnar porous ceramic members are combined with one another through a sealing material layer to constitute a ceramic block, each of the rectangular columnar porous ceramic member including a number of through holes that are placed in parallel with one another in the length direction with partition wall interposed therebetween;

a sealing material layer is also formed on a circumference portion of the ceramic block; and

said partition wall which separates the through holes functions as a filter for collecting particulates,

wherein, on a cross section perpendicular to the length direction of the porous ceramic member of the ceramic block, the maximum width L (mm) of the crisscross portion of said sealing material layer is 1.5 to 3 times greater than the minimum width l (mm) of the sealing material layer.